SONY®

Stylish. Slim. *Mobile.*

like.no.other™

3LCD

An Impressive Presentation – Anytime, Anywhere.

With their slim, minimalist designs, the new range of Sony LCD projectors offer an ideal match to your ultra-modern business office. Combining stylish curves, superb performance and compact portability, it enhances your corporate image.

Combining intelligent set-up functions, powerful 2100 ANSI Lumens brightness and Multi-input versatility, the new VPL-CX21 and VPL-CS21 projectors are exceptionally user-friendly. Both also incorporate the latest 3LCD Technology with Sony LCD panels for optimum colour reproduction and true-to-life clarity, delivering a truly stunning presentation every time!

Designed to Perform.

Weighing at 1.9kg, the new VPL-CX21 and VPL-CS21 are designed for maximum portability and convenience without sacrificing projection power. Its slim (52mm) and stylish body is carefully molded using a unique nanomolding process, which allows aluminium to bond closely with resin to create a light, yet very strong and durable material. Non-frequently used buttons are hidden behind a cover to give you a cleaner design. And, its stylish curved edge allows for comfortable handling – making it a pleasure to carry with you to your meetings.

Advanced Intelligent Auto Setup

Powered Tilt Adjuster
The projector automatically reverts to the last saved height setting upon power on.

Auto Keystone Correction
Automatically corrects distortion up to 15 degrees, allowing images to be projected with correct geometry even when installation space is limited.

Auto Focus
The image is automatically adjusted for the sharp focus upon startup.

Auto Input Search
It automatically detects and projects from the projector's input source.

Smart APA (Auto Pixel Alignment)
The smart APA function automatically re-sizes and adjusts the projected images for optimum picture performance.

An All-round Performer.

Off and Go

Incorporating a built-in circuit that continues to run its cooling fan, you can unplug the projector and proceed to the next presention – without wasting time.

Built-in Lens Protector

The hard acrylic lens protector is inset into the body of the projector itself, so you won't have to worry about removing the cover before turning on the power.
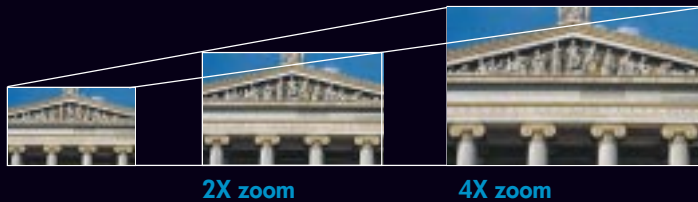
Input Flexibility (Multiscan Converter)

The VPL-CS21 and VPL-CX21 accept a wide variety of video input signals ranging from Standard Definition to High Definition. Supported interfaces include - composite, S-Video (Y/C), and analog RGB/component via the HD D-sub 15 pin plug. They also accept computer signals from VGA up to SXGA+ (1400 x 1050).

Digital Zoom

Zoom into any section of your presentation instantly with the 4-times Digital Zoom function. Now you can draw attention to important points quickly and effectively.

2X zoom   **4X zoom**

Freeze Function

The Freeze function displays a frame of your choice. Now switchovers in presenters, software startups and file preparation can be performed without jarring pauses and screen changes.

Six Picture Modes

The VPL-CS21 and VPL-CX21 offer intelligent Six Picture Modes – Dynamic, Standard, Game, Living, Cinema, and Presentation. So whether the projector is connected to a computer, DVD player or a game console, you can always enjoy the best picture quality.

Mode	Mode Definition	Situation (Environment)
Dynamic	Enhanced picture contrast and sharpness	Bright room
Standard	Standard picture settings	Slightly bright room
Game	Game picture settings	Bright room
Living	Sport, music and TV picture settings (news, drama, variety and etc)	Slightly bright room
Cinema	Cinema picture settings	Dark room
Presentation	PC picture settings	Very bright room

Security

Password Authentication System
By incorporating a 4-digit password system, it helps to prevent unauthorised use of the projector.

Control Panel Key Lock
The control panels on the top and side of the projector can be locked, preventing unauthorised adjustment.

Security Lock
Provides additional security by locking with an optional security cable.
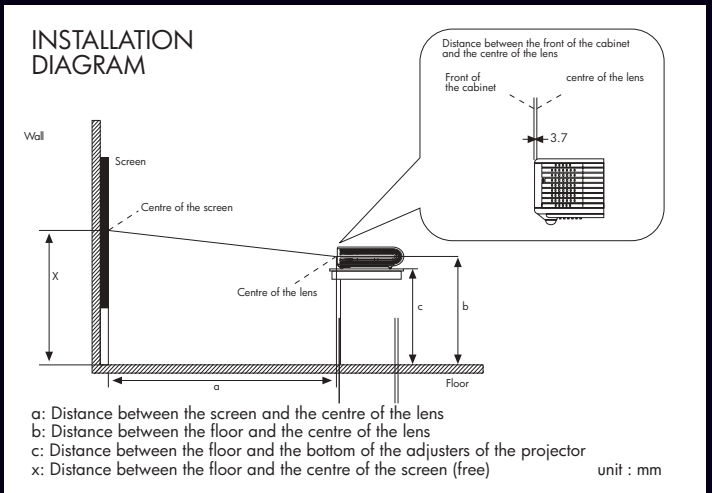
Low Fan Noise
During operation in standard mode, the projectors emit up to 41dB for whisper quiet operation.

HD-Ready
Accepts high definition and DVD progressive signals, in addition to standard NTSC/PAL signals.

Short Throwing Distance
Using the short focal lens, you can project on an 80-inch screen at a focal length as short as 2.3m. This allows for projection of large-sized images in a limited space.

INSTALLATION DIAGRAM

Distance between the front of the cabinet and the centre of the lens

Front of the cabinet — centre of the lens

3.7

Wall

Screen

Centre of the screen

X

Centre of the lens

c   b

a   Floor

a: Distance between the screen and the centre of the lens
b: Distance between the floor and the centre of the lens
c: Distance between the floor and the bottom of the adjusters of the projector
x: Distance between the floor and the centre of the screen (free)   unit : mm

Screen Size

mm	40	60	80	100	120	150	200	250	300
a Min.	1190	1800	2400	3010	3620	4530	6040	7560	9080
Max.	1370	2070	2760	3460	4160	5200	6940	8680	10420
b	x-203	x-305	x-406	x-508	x-610	x-762	x-1016	x-1270	x-1524
c	x-240	x-342	x-443	x-545	x-646	x-799	x-1053	x-1307	x-1561

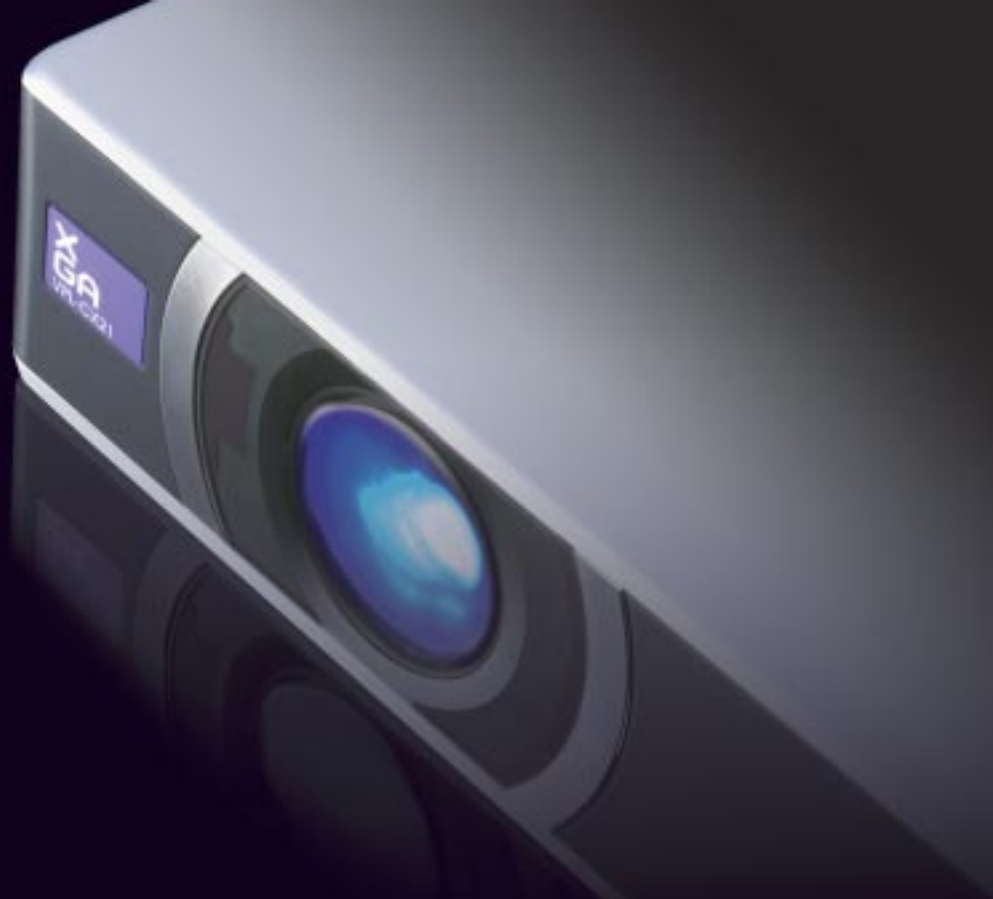| inches	40	60	80	100	120	150	200	250	300
a Min.	46•7/8	70•7/8	94•1/2	118•5/8	142•5/8	178•3/8	237•7/8	297•3/4	357•5/8
Max.	54	81•5/8	108•3/4	136•1/4	163•7/8	204•3/4	273•3/8	341•7/8	410•3/8
b	x-8	x-12	x-16	x-20	x-24	x-30	x-40	x-50	x-60
c	x-9•1/2	x-13•1/2	x-17•1/2	x-21•1/2	x-25•1/2	x-31•1/2	x-41•1/2	x-51•1/2	x-61•1/2

*Above specifications are including +/-3% tolerance. "Min."=design value x 1.03, "Max."=design value x 0.97

Screen Size (inches) is measured diagonally

a (Min)={(SS x 18.5575/0.6299)-24} x 1.03   b=x-(SS/0.6299 x 3.2)
a (Max)={(SS x 22.6142/0.6299)-24} x 0.97   c=x-(SS/0.6299 x 3.2+36.85)

![3LCD logo]

1 Bright Images
2 Natural Colour Reproduction
3 Vivid Images

Brighter Mobile Projection.

Benefits of 3LCD Technology
With a separate LCD panel for each primary colour, you get bright, natural images that are so easy on the eyes.

Bright Images
3LCD projectors divide the light emitted from the lamp into the three basic colors of red (R), green (G) and blue (B). Each colour light shines through separate liquid crystal panels (HTPS type) that give shape and movement to the final image on the screen. Therefore, light efficiency is excellent as the three basic colors are projected the entire time when the projector is on. This ensures that users see an image that is both bright and sharp.
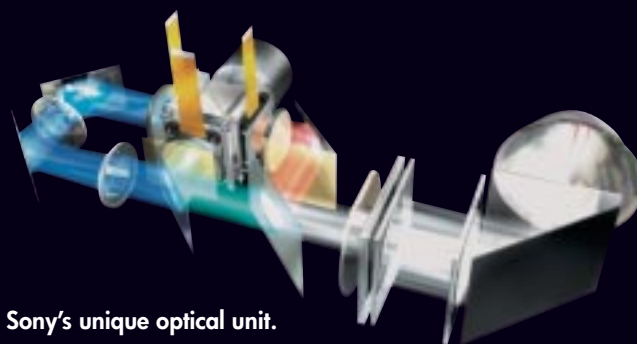
Natural Images
Sony 3LCD projectors produce accurate colours. Each primary colour is carefully controlled and recombined, such that subtle expressions in gradations and shadows are accurately reproduced.

Gentle on the Eyes
3LCD technology enables projection of stable and flicker free images that are gentle on the eyes. With 3LCD, there are no problems with colour breakup - otherwise known as the rainbow effect - that can affect some projection systems. This makes superb reproduction of moving images.

High Brightness 2100 ANSI Lumens
Incorporating Sony's original 0.63-inch LCD panels and new 165W lamp, the VPL-CX21 and VPL-CS21 can reproduce bright images at 2100 ANSI lumens.

Sony's unique optical unit.

Specifications

Model Name	VPL-CX21	VPL-CS21
Optical		
Projection System	3 LCD panels, 1 lens projection system	
Panel	0.63-inch XGA LCD panel, 786,432 (1024 x 768) x 3	0.63-inch SVGA LCD panel, 480,000 (800 x 600) x 3
Lens	Approx. 1.2 times, F 1.6 to 1.94, f 18.8 to 22.6mm	
Lamp	165/125 W Ultra high pressure lamp	
Lamp Life	2000H (lamp mode high) / 3000H (lamp mode standard)[*2]	
Screen Size	40 to 300 inches (measured diagonally), 40 to 150 inches (auto focus operation range)	
Light Output	2100 ANSI lumens (lamp mode high) / 1600ANSI lumens (lamp mode standard)	
Throwing Distance[*1]	80" screen – 2.3-2.8m, 100" screen – 2.9-3.6m	
Contrast (all white & black)	300:1(MAX)	
Signals		
Colour System	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60	
Resolution	Video – 750 TV lines, RGB – 1024 x 768 pixels	Video – 600 TV lines, RGB – 800 x 600 pixels
Acceptable Signal	Computer, fH: 19-92KHz, fV: 48-92Hz (Up to SXGA + (60Hz)), Video - 15kHz RGB/Component 50/60Hz, Progressive Component50/60Hz, DTV(480/60I, 575/50I, 480/60P, 720/60P, 720/50P, 1080/60I, 1080/50I), Composite Video, Y/C Video	
General		
Speaker	Mono speaker system 40 x 20 mm Max. 1W	
Power Requirements	AC 100 to 240V, 2.2 - 1.0A, 50/60Hz	
Power Consumption	Max – 220W, Standby – 0.8W	
Operating Temperature	0 to 35 C degrees (32 to 95 F degrees)	
Operating Humidity	35 to 85% (no condensation)	
Storage Temperature	-20 to 60 C degrees (-4 to 140 F degrees)	
Storage Humidity	10 to 90 %	
Dimension (W x H x D)	273 x 210 x 52mm/inches (without the projection parts)	
Weight	2kg	
Fan Noise	32 dB (lamp mode standard) / 41 dB (lamp mode high.)	
Keystone Correction Range	Max. +/- 15 degrees vertically	
Heat Dissipation	750.7 BTU	
OSD (language)	15-language (English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese (Simplified, Traditional), Korean, Russian,Dutch, Norwegian, Swedish, Thai)	
Input / Output		
Audio/Video	A/V Multi, VIDEO: composite video: 1V p-p+/-2dB sync negative (75 ohms terminated), S Video: Y/C(luminance): 1Vp-p+/-2dB sync negative (75 ohms terminated), C(chrominance): burst 0.286Vp-p+/- 2dB(NTSC)(75 ohms terminated), burst 0.3Vp-p+/-2dB (PAL) (75 ohms terminated) AUDIO: rated input 500mVrms, input impedance 47kiloohms	
Input A	HD D-sub 15-pin (female), Analog RGB/Component: R/R-Y: 0.7Vp-p+/-2dB (75 ohms terminated), G: 0.7 Vp-p+/-2dB (75 ohms terminated), G with sync/Y: 1V p-p+/-2dB sync negative (75 ohms terminated), B/B-Y: 0.7Vp-p+/-2dB (75 ohms terminated), SYNC/HD:composite sync input : TTL level, positive/negative, Horizontal sync input: TTL level positive/negative,VD: verticalsync input: TTL level positive/negative	
Safety Regulations		
Safety Regulations	UL1950, cUL (CSA 60950), FCC Class B, IC Class B, NEMKO (EN60950), CE (LVD, EMC), C-Tick, Denan, VCCI Class B,(CCC-for China model only)	
Supplied Accessories	Remote Commander : RM-PJ5, Lithium battery; CR2025 (1), HD D-sub 15-pin cable (2m) (1), A/V connecting adaptor (1) , Carrying Case, Security Label, Operating Instructions (CD-ROM), Quick Reference Manual (printed), Safety regulations booklet (printed) (Warranty card@local), (AC Power Cord, 2 pole @local)	
Battery information		
Battery for Remote Commander	Category: battery lithium, Type: CR2025, Weight of single battery (g): 2.3g, Number of batteries per package: 1	
Optional Accessory	Projector Lamp: LMP-C163 (for replacement), Presentation Kit: RM-PJPK1	

*1 The following distance in this chart is "design value" and the tolerance is not included. Therefore the values are different from the ones in the "Installation Diagram" (page 5)
*2 The number is approximate. This value varies depnding on the environment or how the projector is used.
Note: Specifications are subjected to change without prior notice.

Preset Signals

No.		Preset Signal	fH (kHz)	fV (Hz)	Sync
1	VIDEO/60	60Hz	15.734	59.940	-
2	VIDEO/50	50Hz	15.625	50.000	-
3	3480/60i	480/60i	15.734	59.940	S on G/Y
4	4575/50i	575/50i	15.625	50.000	S on G/Y
5	480/60p	480/60p (progressive component)	31.470	60.000	S on G/Y
6	575/50p	575/50p (progressive component)	31.250	50.000	S on G/Y
7	1080/60i	1035/60i, 1080/60i	33.750	60.000	S on G/Y
8	1080/50i	1080/50i	28.130	50.000	S on G/Y
9	720/60p	720/60p	45.000	60.000	S on G/Y
10	720/50p	720/50p	37.500	50.000	S on G/Y
11	640 x 350	VGA mode1	31.469	70.086	P/N
12		VGA VESA 85Hz	37.861	85.080	P/N
13	640 x 400	PC-9801 Normal	24.823	56.416	N/N
14		VGA mode 2	31.469	70.086	N/P
15		VGA VESA 85Hz	37.861	85.080	N/P
16	640 x 480	VGA mode 3	31.469	59.940	N/N
17		Macintosh 13"	35.000	66.667	N/N
18		VGA VESA 72Hz	37.861	72.809	N/N
19		VGA VESA 75Hz	37.500	75.000	N/N
20		VGA VESA 85Hz	43.269	85.008	N/N
21	800 x 600	SVGA VESA 56Hz	35.156	56.250	P/P
22		SVGA VESA 60Hz	37.879	60.317	P/P
23		SVGA VESA 72Hz	48.077	72.188	P/P
24		SVGA VESA 75Hz	46.875	75.000	P/P
25		SVGA VESA 85Hz	53.674	85.061	P/P
26	832 x 624	Macintosh 16"	49.724	74.550	N/N
27	1024 x 768	XGA VESA 60Hz	48.363	60.004	N/N
28		XGA VESA 70Hz	56.476	69.955	N/N
29		XGA VESA 75Hz	60.023	75.029	P/P
30		XGA VESA 85Hz	68.677	84.997	P/P
31	1152 x 864	SXGA VESA 70Hz	63.995	70.019	P/P
32		SXGA VESA 75Hz	67.500	75.000	P/P
33		SXGA VESA 85Hz	77.487	85.057	P/P
34	1152 x 900	SUN LO	61.795	65.960	N/N
35	1280 x 960	SXGA VESA 60Hz	60.000	60.000	P/P
36		SXGA VESA 75Hz	75.000	75.000	P/P
37	1280 x 1024	SXGA VESA 60Hz	63.974	60.013	P/P
38		SXGA VESA 75Hz	79.976	75.025	P/P
39*		SXGA VESA 85Hz	91.146	85.024	P/P
40	1400 x 1050	SXGA + 60Hz	63.981	60.020	N/N

* For memory no. 39, the smart APA function and the APA key on the remote commander are not active. Make adjustments for the input signal using the Adjust signal on the input setting menu.

Optional Accessiories

Projector Lamp (For Replacement)   **Presentation Tool Kit**

LMP-C163   RM-PJPK1